07017605 COONVILLE CREEK AT ST. FRANCOIS STATE PARK
(Ambient water-quality monitoring network)

WATER-QUALITY RECORDS

LOCATION.--Lat 37°58′04″, long 90°32′00″, in sec.25, T.38 N., R.4 E., St. Francois County, Hydrologic Unit 07140104, at first set of culverts on park road off U.S. Route 67.

PERIOD OF RECORD.--November 1992 to current year.

REMARKS.--Ambient water-quality monitoring network station since November 1992.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

| DATE | TIME | DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061) | TEMPER-ATURE WATER (DEG C) (00010) | SPE-CIFIC CON-DUCT-ANCE (µS/CM) (00095) | PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400) | OXYGEN, DIS-SOLVED (MG/L) (00300) | OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301) | OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L) (00340) | COLI-FORM, FECAL, 0.7 µM-MF (COLS./ 100 ML) (31625) | STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673) | ALKA-LINITY WAT WH TOT FET FIELD (MG/L AS $CACO_3$) (00410) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NOV | | | | | | | | | | | |
| 01... | 1100 | 0.96 | 11.0 | 519 | 7.5 | 10.7 | 97 | -- | -- | K10 | 275 |
| JAN | | | | | | | | | | | |
| 11... | 1020 | 2.6 | 4.5 | 535 | 8.1 | 12.7 | 98 | 11 | 11 | 42 | 235 |
| MAR | | | | | | | | | | | |
| 20... | 1310 | 1.9 | 15.5 | 437 | 8.1 | 10.0 | 99 | -- | K5 | K9 | 221 |
| APR | | | | | | | | | | | |
| 26... | 1600 | 2.7 | 15.5 | 386 | 8.3 | 10.0 | 100 | -- | K6 | K21 | 193 |
| JUN | | | | | | | | | | | |
| 08... | 1000 | 3.0 | 17.0 | 412 | 8.2 | 8.3 | 85 | <10 | 150 | 400 | 230 |
| AUG | | | | | | | | | | | |
| 07... | 1405 | 1.5 | 23.0 | 444 | 8.2 | 7.8 | 90 | -- | K15 | 140 | 261 |

| DATE | BICAR-BONATE WATER WH IT FIELD (MG/L AS $HCO_3$) (00450) | CAR-BONATE WATER WH IT FIELD (MG/L AS $CO_3$) (00447) | NITRO-GEN, $NO_2+NO_3$ TOTAL (MG/L AS N) (00630) | NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615) | NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610) | NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625) | PHOS-PHORUS TOTAL (MG/L AS P) (00665) | PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507) | HARD-NESS TOTAL (MG/L AS $CACO_3$) (00900) | CALCIUM DIS-SOLVED (MG/L AS CA) (00915) |
|---|---|---|---|---|---|---|---|---|---|---|
| NOV | | | | | | | | | | |
| 01... | 335 | 0 | 0.040 | <0.010 | <0.010 | <0.20 | <0.020 | <0.010 | -- | -- |
| JAN | | | | | | | | | | |
| 11... | 287 | 0 | 0.120 | <0.010 | <0.010 | <0.20 | <0.020 | <0.010 | 260 | 52 |
| MAR | | | | | | | | | | |
| 20... | 274 | 0 | 0.050 | <0.010 | 0.010 | <0.20 | 0.070 | <0.010 | -- | -- |
| APR | | | | | | | | | | |
| 26... | 239 | 0 | 0.040 | <0.010 | 0.020 | <0.20 | <0.020 | <0.010 | -- | -- |
| JUN | | | | | | | | | | |
| 08... | 281 | 0 | 0.130 | <0.010 | 0.010 | <0.20 | <0.020 | <0.010 | 250 | 50 |
| AUG | | | | | | | | | | |
| 07... | 320 | 0 | 0.100 | <0.010 | 0.010 | 0.20 | 0.020 | <0.010 | -- | -- |

| DATE | MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925) | SODIUM, DIS-SOLVED (MG/L AS NA) (00930) | POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935) | SULFATE DIS-SOLVED (MG/L AS $SO_4$) (00945) | CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940) | FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950) | SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300) | RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530) | ALUM-INUM, TOTAL RECOV-ERABLE (µG/L AS AL) (01105) | ALUM-INUM, DIS-SOLVED (µG/L AS AL) (01106) |
|---|---|---|---|---|---|---|---|---|---|---|
| JAN | | | | | | | | | | |
| 11... | 32 | 8.5 | 0.60 | 13 | 19 | <0.10 | 274 | 2 | 30 | <20 |
| JUN | | | | | | | | | | |
| 08... | 30 | 3.8 | 0.80 | 10 | 5.9 | <0.10 | 250 | 8 | 40 | 30 |

| DATE | CADMIUM TOTAL RECOV-ERABLE (µG/L AS CD) (01027) | CADMIUM DIS-SOLVED (µG/L AS CD) (01025) | COPPER, DIS-SOLVED (µG/L AS CU) (01040) | IRON, DIS-SOLVED (µG/L AS FE) (01046) | LEAD, TOTAL RECOV-ERABLE (µG/L AS PB) (01051) | LEAD, DIS-SOLVED (µG/L AS PB) (01049) | MANGA-NESE, DIS-SOLVED (µG/L AS MN) (01056) | MERCURY TOTAL RECOV-ERABLE (µG/L AS HG) (71900) | ZINC, TOTAL RECOV-ERABLE (µG/L AS ZN) (01092) | ZINC, DIS-SOLVED (µG/L AS ZN) (01090) |
|---|---|---|---|---|---|---|---|---|---|---|
| JAN | | | | | | | | | | |
| 11... | <1 | <1.0 | <1 | 7 | 7 | 6 | 1 | <0.10 | 120 | 110 |
| JUN | | | | | | | | | | |
| 08... | <1 | <1.0 | <1 | 8 | 8 | 6 | 2 | 0.10 | 110 | 110 |

K--Results based on colony count outside the acceptable range (non-ideal colony count).